AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of the Claims:

- 1-9. (Canceled).
- 10. (Currently Amended) A sensor element for a gas sensor for determining a concentration of a gas component in a gas mixture, comprising:
 - a pair of electrodes including a first electrode and a second electrode;
- a solid electrolyte that forms, together with the first and second electrodes, a pump cell for the gas component;
 - a reference electrode provided on the solid electrolyte and exposed to a reference gas; a porous protective layer for the first electrode,
- wherein the first electrode is exposed to the gas mixture via the porous protective layer,
- wherein the first electrode forms, together with the reference electrode and the solid electrolyte, a concentration cell, and
- wherein the porous protective layer is a coarsely porous diffusion layer; and a finely porous diffusion layer coated on a surface of the second electrode facing away from the solid electrolyte,
- wherein the finely porous diffusion layer is directly exposed to the gas mixture, and
- wherein the second electrode is configured as a reference electrode of the concentration cell, and

wherein the sensor element does not include a measuring chamber.

wherein the solid electrolyte is part of a solid electrolyte body that includes a first solid electrolyte layer and a second solid electrolyte layer, and wherein the first electrode and the second electrode are situated on vertically opposite sides of the first solid electrolyte layer, the first solid electrolyte layer being positioned relative to the second solid electrolyte layer in such a way that a clearance exists between the second solid electrolyte layer and the finely porous diffusion layer coated on the surface of the second electrode, and the clearance

U.S. Pat. Appl. Ser. No. 10/571,869 Attorney Docket No. 10191/4215

being exposed to the gas mixture via a gas supply orifice that extends through the first solid electrolyte layer, and

wherein the clearance adjoins the gas supply orifice.

11. (Canceled).

12. (Withdrawn) The sensor element as recited in Claim 11, wherein the solid electrolyte is

part of a solid electrolyte body, and wherein the first and second electrodes are situated on

opposite surfaces of the solid electrolyte body.

13. (Withdrawn) The sensor element as recited in Claim 12, wherein the solid electrolyte

body includes a first solid electrolyte sheet and a second solid electrolyte sheet, and wherein

the first electrode is situated on the first solid electrolyte sheet and the second electrode is

situated on the second solid electrolyte sheet, and wherein between a surface of the first solid

electrolyte facing away from the first electrode and a surface of the second solid electrolyte

facing away from the second electrode, the first and second solid electrolyte sheets

substantially enclose an insulation layer having an integrated electric resistance heater, and

wherein the first and second solid electrolyte sheets are interconnected by the insulation layer

and a solid electrolyte frame laterally surrounding the insulation layer.

14. (Withdrawn) The sensor element as recited in Claim 13, wherein a solid electrolyte web

extending through portions of the insulation layer is provided between the first and second

solid electrolyte sheets.

15. (Canceled).

16. (Previously Presented) The sensor element as recited in Claim 15, wherein the first solid

electrolyte layer is supported by a radial web on the second solid electrolyte layer, in the area

of the clearance.

17. (Previously Presented) The sensor element as recited in Claim 16, wherein the radial

web is made of a solid electrolyte.

U.S. Pat. Appl. Ser. No. 10/571,869 Attorney Docket No. 10191/4215

- 18. (Previously Presented) The sensor element as recited in one of Claim 10, wherein the finely porous diffusion layer is made up of a plurality of superposed diffusion layers of different porosities.
- 19. (Withdrawn) The sensor element as recited in one of Claim 12, wherein the finely porous diffusion layer is made up of a plurality of superposed diffusion layers of different porosities.
- 20. (Withdrawn) The sensor element as recited in one of Claim 13, wherein the finely porous diffusion layer is made up of a plurality of superposed diffusion layers of different porosities.
- 21. (Previously Presented) The sensor element as recited in one of Claim 15, wherein the finely porous diffusion layer is made up of a plurality of superposed diffusion layers of different porosities.
- 22. (Previously Presented) The sensor element as recited in one of Claim 16, wherein the finely porous diffusion layer is made up of a plurality of superposed diffusion layers of different porosities.
- 23. (Canceled).